

Publication

EP 0553257 A4 19940330

Application

EP 91919875 A 19911008

Priority

- US 9107207 W 19911008
- US 59750890 A 19901015

Abstract (en)

[origin: US5076278A] An ultrasonic transducer for use in locating devices with an ultrasonic imaging system which is sensitive over a broad range of angles of incident acoustic beams, such as those beams emitted in ultrasonic systems, has a curved surface, and is an annular member in shape. The elongated catheter or other device passes through the opening of the annular transducer. Based on the shape of such transducers and the wavelength used, the response of the transducers is a function of the angle of the insonifying beam to the catheter axis. The particular response of such transducers is shown to depend on the curvature of the annular marker, with the radius of curvature chosen on the basis of the wavelength used in the ultrasonic scanning system; between 2-50 wavelengths.

IPC 1-7

A61B 8/00

IPC 8 full level

A61B 8/00 (2006.01); **A61B 8/08** (2006.01); **A61B 8/12** (2006.01)

CPC (source: EP US)

A61B 8/0833 (2013.01 - EP US); **A61B 8/0841** (2013.01 - EP US); **A61B 8/12** (2013.01 - EP US)

Citation (search report)

- [Y] FR 2356126 A1 19780120 - SUTURES INC [US]
- [Y] EP 0083973 A1 19830720 - TECHNICARE CORP [US]
- [A] EP 0072671 A2 19830223 - TECHNICARE CORP [US]
- [A] US 4757821 A 19880719 - SNYDER JONATHAN E [US]
- [DA] US 4706681 A 19871117 - BREYER BRANKO [YU], et al
- See references of WO 9206637A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 5076278 A 19911231; CA 2093645 A1 19920416; CA 2093645 C 19980421; DE 69127629 D1 19971016; DE 69127629 T2 19980409; EP 0553257 A1 19930804; EP 0553257 A4 19940330; EP 0553257 B1 19970910; JP H06504920 A 19940609; WO 9206637 A1 19920430

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